

L Number	Hits	Search Text	DB	Time stamp
1	16	universal adj ticket	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:27
2	106	bus adj fare	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:27
3	67	train adj fare	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:28
4	1	(bus adj fare) and (train adj fare)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:29
5	11954	frederic.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:30
6	123	frederic.in. and public	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:30
7	24	(frederic.in. and public) and card	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:35
8	3809	kiyoaki.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:36
9	20388	bus and train	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:36
10	1	kiyoaki.in. and (bus and train)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:37
11	7	"4758954"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:46
12	50402	pierre.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:47
13	98	pierre.in. and ticket	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/05 11:47

14	19	(pierre.in. and ticket) and bus	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 11:49
15	4	non-network near3 card	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 11:51
16	5704678	universal system	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 11:51
17	793	universal adj system	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 11:52
18	25	(universal adj system) and ticket	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 11:56
19	1753	public adj transportation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 11:56
20	177	(public adj transportation) and ticket	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 11:57
21	57	(bus and train) and ((public adj transportation) and ticket)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 12:23
22	5	"0582098"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 12:25
23	1	"00582098"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 12:25
24	0	"1994044165"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 12:29
25	2989	ticket same (bus adn train)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 12:30
26	544	(ticket same (bus adn train)) and reader	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 12:31
27	105	((ticket same (bus adn train)) and reader) and fare	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/05 12:31

TDB-ACC-NO: NN7507562

DISCLOSURE TITLE: Self Service Ticketing System. July 1975.

PUBLICATION-DATA: IBM Technical Disclosure Bulletin, July 1975, US

VOLUME NUMBER: 18

ISSUE NUMBER: 2

PAGE NUMBER: 562 - 563

PUBLICATION-DATE: July 1, 1975 (19750701)

CROSS REFERENCE: 0018-8689-18-2-562

DISCLOSURE TEXT:

2p. The drawing which is a passenger's view of a railway

station platform barrier, shows train 1 beyond the platform entrance.

Over the platform entrance is display 2 which displays information,

such as the train number and its destination.

Intermediate stations

may also be shown. Gate 3 operated by control 4 prevents access to

the platform unless a valid ticket is presented to ticket slot 5.

- Located in some convenient position, for example beside the

platform entrance, is self-service ticketing terminal

6. Terminal 6

may be connected to a remote computer, or it may contain sufficient

logic and data storage to perform its function.

- Terminal 6 includes instruction/display area 7 and money

acceptor 8, which accepts banknotes and coins and dispenses change.

Instruction/ display area 7 is linked to display 2 so that the

information they display relates to the train awaiting

departure.

Key buttons 9 are associated with display area 7.

- The system will be described with reference to the action to be performed by a traveller who wishes to journey on train A103 and who

has no ticket. He would proceed to terminal 6 and after checking

whether the displayed information related to train A103, would enter

into the terminal details such as class of ticket, single or return, period of validity, adult or child, and destination.

- The price of the desired ticket would be displayed and after

depositing appropriate funds in cash acceptor 8, terminal 6 will

issue a ticket through slot 10. Money acceptor 8 can be arranged to

dispense change or it can be arranged only to accept the exact fare,

in which case money changers may be located near the terminal.

- Upon receiving the ticket which will have encoded thereon

(normally magnetically as well as visibly) all the relevant

information, the traveller inserts the ticket into slot 5 to operate

the gate 3 and gain access to the platform; the ticket is

automatically returned to the passenger as he passes through the

platform entrance.

- Should terminal 6 be linked to a host computer, the system can

be readily adapted to handle payments by credit card. This may be

done in one of two ways. Either a credit card reader can be provided

in terminal 6 to allow issue of a ticket with automatic debiting of

the credit account or a credit card reader 11 can be provided on gate

control 4. In the latter case, gate 3 would be operated when an

authorized credit card is presented to reader 11: it would be

necessary for the ticket inspector on the train to establish a right-to-ride, by reading from the credit card with a portable hand scanner.

- Where a credit card is used to gain direct access, it would be necessary to encode on it the departure station, and other data such as date, time etc., so that at the destination station the fare can be computed and debited from the holder's credit account.

- To prevent fraudulent use of credit cards, the host computer is accessed to determine credit limit, whether the card is stolen etc.

However, this checking could be performed during the journey itself, with indications of fraudulent use being sent to stations on the route of the train.

- In a fully automatic system, an exit gate checks tickets and credit cards for validity and would remain closed if an invalid ticket or credit card were produced.

SECURITY: Use, copying and distribution of this data is subject to the restrictions in the Agreement For IBM TDB Database and Related Computer Databases. Unpublished - all rights reserved under the Copyright Laws of the United States. Contains confidential commercial information of IBM exempt from FOIA disclosure per 5 U.S.C. 552(b)(4) and protected under the Trade Secrets Act, 18 U.S.C. 1905.

COPYRIGHT STATEMENT: The text of this article is Copyrighted (c) IBM Corporation 1975. All rights reserved.

